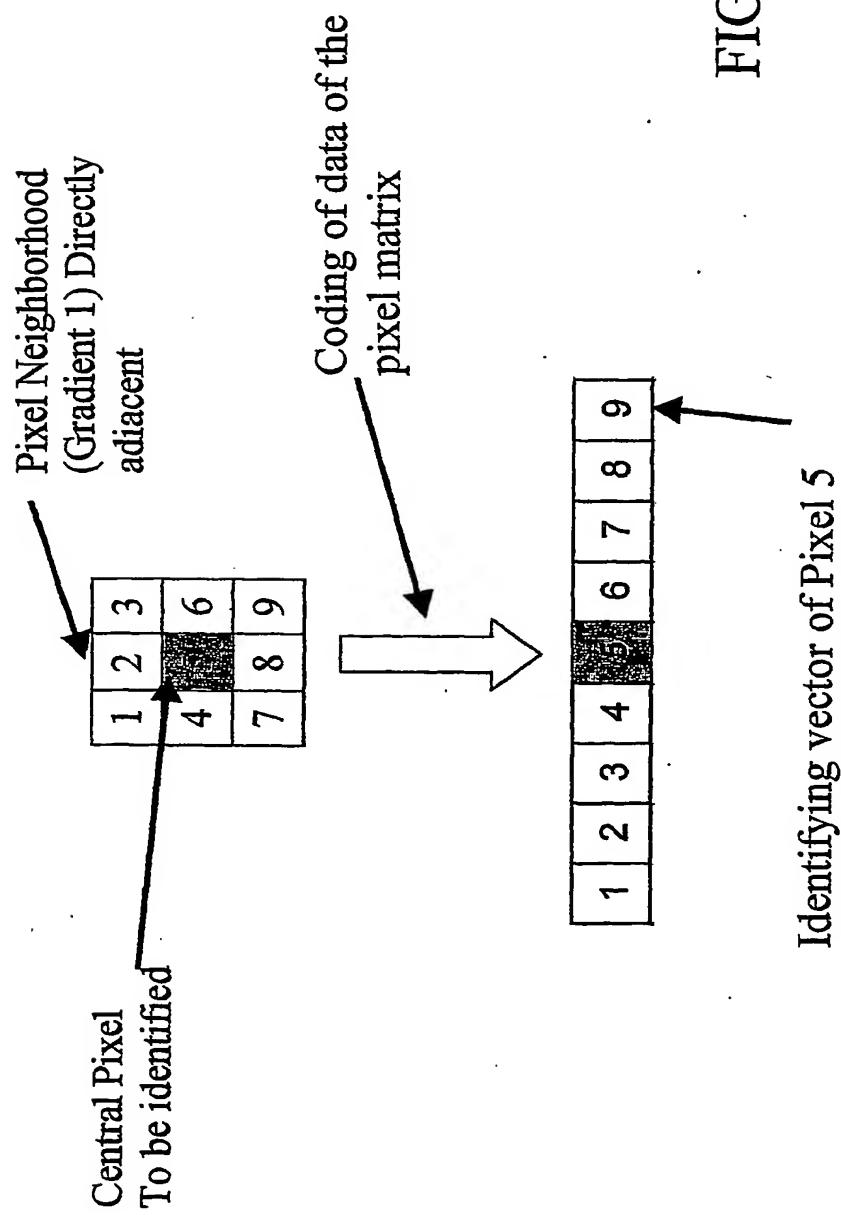
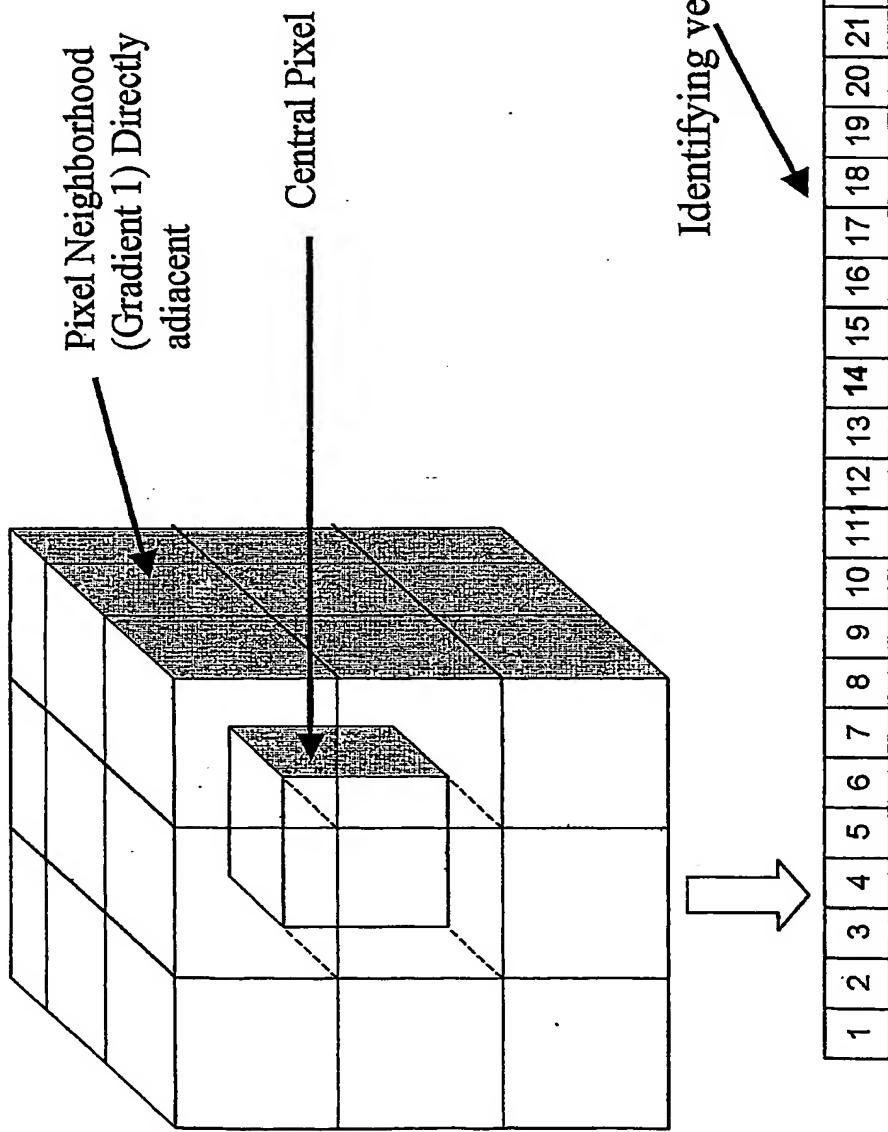
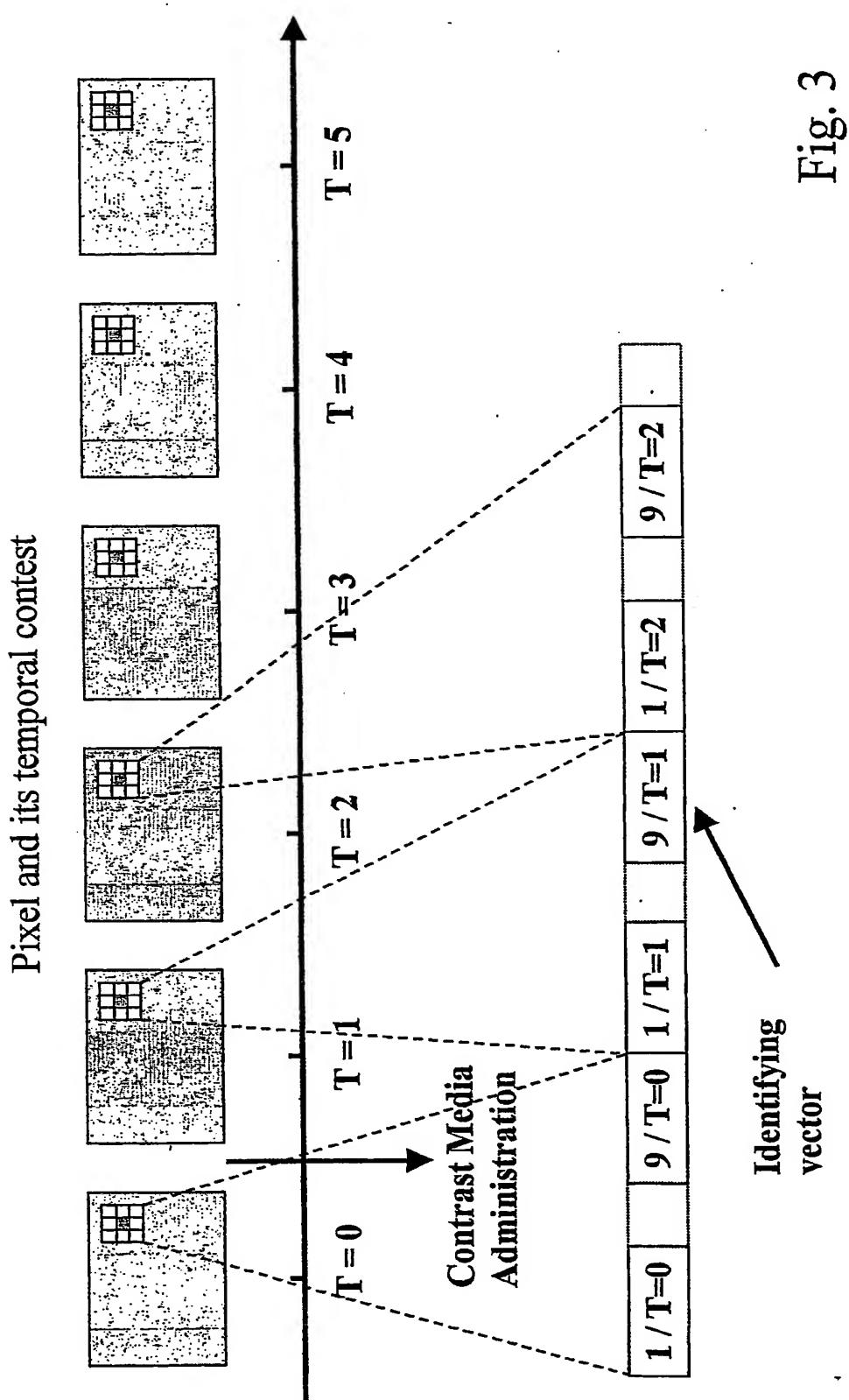


Pixel and its spatial contest 2D



Pixel and its spatial contest 3D





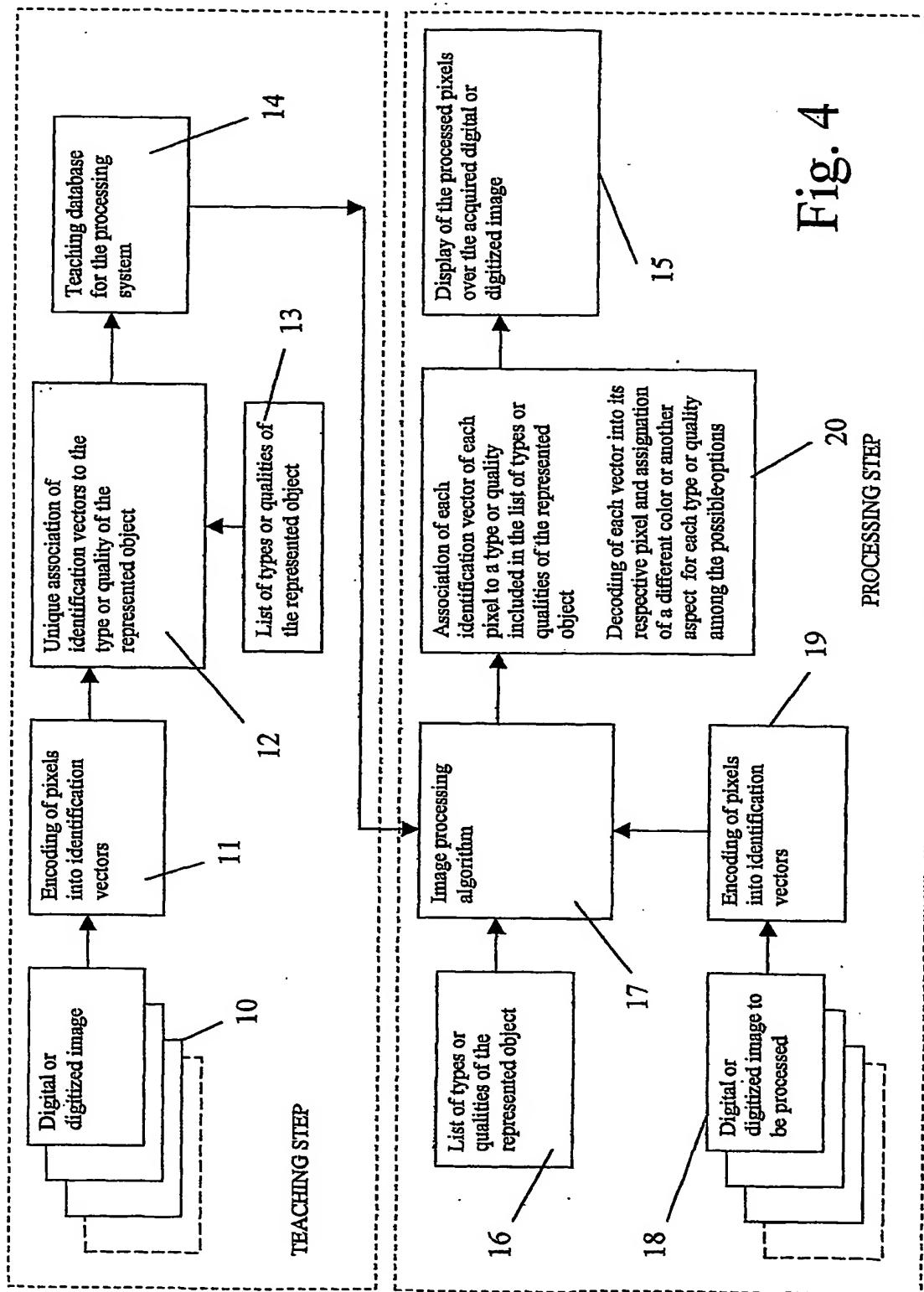


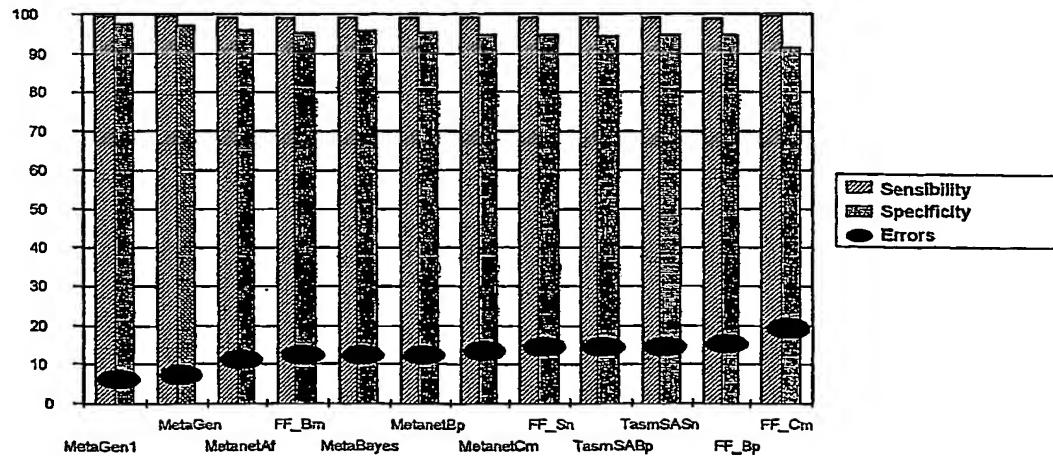
Fig. 4

Recognition of benign/Malignant Tissues

Imaging (NMR) Breast Cancer- Prediction Results							
ANN	Malignant	Benign	Sensitivity	Specificity	Arit Av	Pond Av	Errors
MetaGen1	99.43	98.22	99.57	97.65	98.83	99.19	7
MetaGen	99.28	98.22	99.57	97.08	98.75	99.08	8
MetanetAf	99.00	97.04	99.28	95.91	98.02	98.62	12
FF_Bm	98.85	97.04	99.28	95.35	97.95	98.50	13
MetaBayes	99.00	96.45	99.14	95.88	97.72	98.50	13
MetanetBp	98.85	97.04	99.28	95.35	97.95	98.50	13
MetanetCm	98.71	97.04	99.28	94.80	97.88	98.39	14
FF_Sn	98.71	96.45	99.14	94.77	97.58	98.27	15
TasmSABp	98.57	97.04	99.28	94.25	97.80	98.27	15
TasmSASn	98.71	96.45	99.14	94.77	97.58	98.27	15
FF_Bp	98.71	95.86	98.99	94.74	97.28	98.15	16
FF_Cm	97.71	97.63	99.42	91.16	97.67	97.69	20

Fig. 5

Recognition of Benign/Malignant Tissue



Recognition of Benign/Malignant/Normal Tissues

ANN	Breast Cancer Results			Global		
	Benign		Malignant	Normal	%Cor	%Err
	Num	Err	%Cor	Num	Err	%Cor
FF_Bp	169	19	88.76	698	50	92.84
FF_Sn	169	13	92.31	698	36	94.84
FF_C	169	12	92.90	698	51	92.69
MetanetBayes	169	20	88.17	698	85	87.82
MetanetB	169	26	84.62	698	31	95.56
MetanetA	169	5	97.04	698	88	87.39
MetaGe	169	7	95.86	698	25	96.42
MetaGen	169	7	95.86	698	24	96.56
MetanetC	169	55	67.46	698	55	92.12

Breast Cancer Results of the Prediction (%Pond. Average)

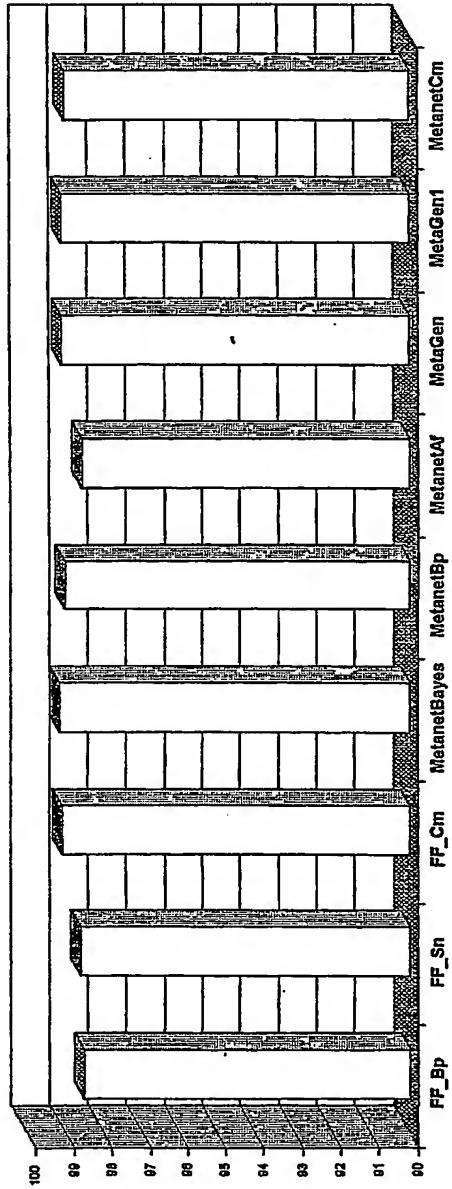


Fig. 6

Recognition of all the five Classes of Tissues

Imaging (NMR)		Breast Cancer					Results of the Prediction				
Classes		LDA	Bp	Bm	Sn	Cm	MetaBp	MetaAl	MetaCm	MetaBayes	
Benign	82.84	94.08	93.49	90.53	96.45	95.27	92.90	92.31	92.31	92.31	
Malignant	74.93	90.11	91.83	92.84	91.12	95.13	95.13	93.27	93.12	93.12	
Normal	82.92	95.74	95.93	95.69	96.91	95.11	95.28	97.23	97.21	97.21	
Background	95.44	99.62	99.59	99.34	99.47	99.67	99.67	99.65	99.70	99.70	
Muscular	94.21	97.88	97.17	97.38	96.98	98.57	98.78	97.46	97.63	97.63	
Arterial	86.07	95.79	95.60	95.75	95.00	96.95	96.84	96.10	95.93	95.93	
Vein	88.90	97.04	96.98	96.90	97.22	97.22	97.35	97.65	97.70	97.70	
Elbows	86.74	96.74	96.09	95.20	95.22	97.81	97.74	97.56	97.04	97.04	
Knees	88.75	96.74	96.09	95.20	95.22	97.81	97.74	97.56	97.04	97.04	

Breast Cancer Results of the Prediction
ERRORS

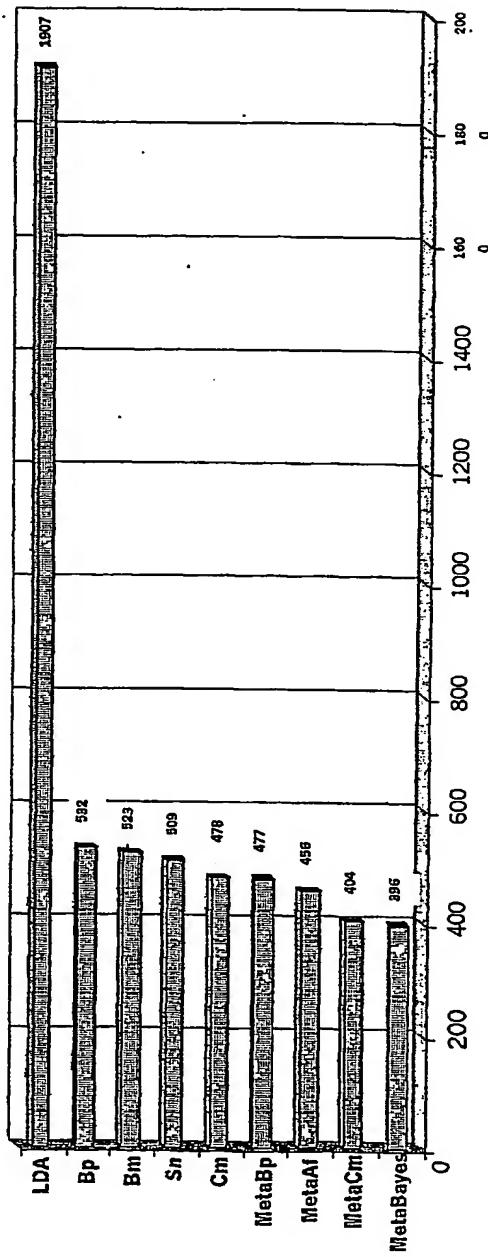


Fig. 7

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INVENTOR(S): PAOLO BUSCEMA

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Fig.8

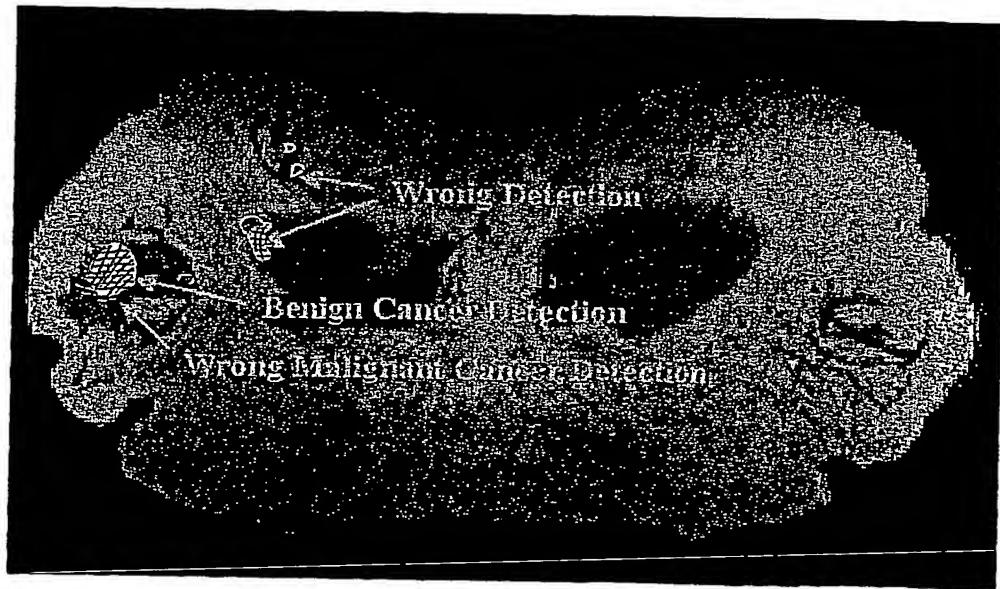


Fig. 9

Recognition Results for 5 Tissue Kinds

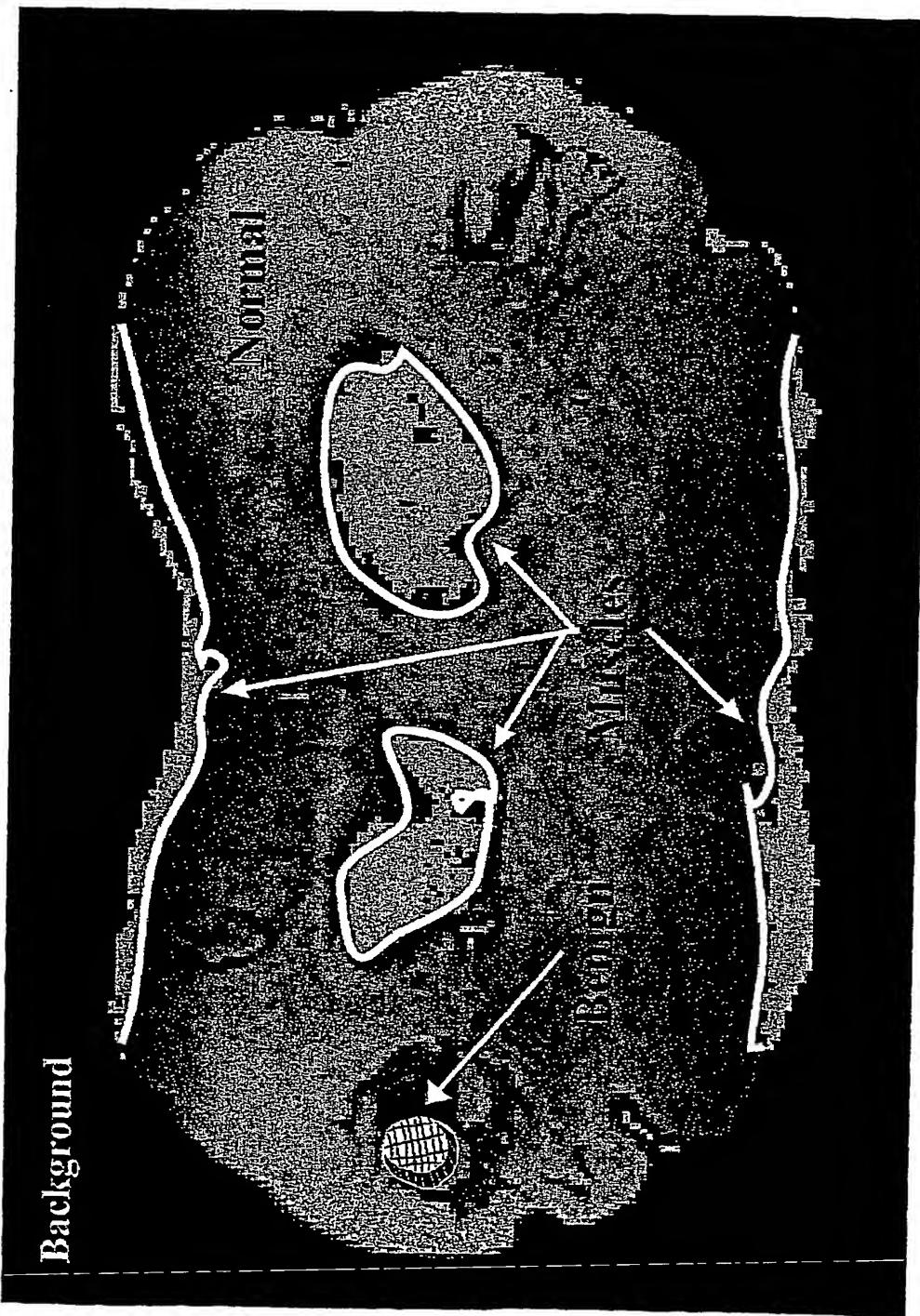


Fig. 10

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INVENTOR(S): PAOLO BUSCEMA

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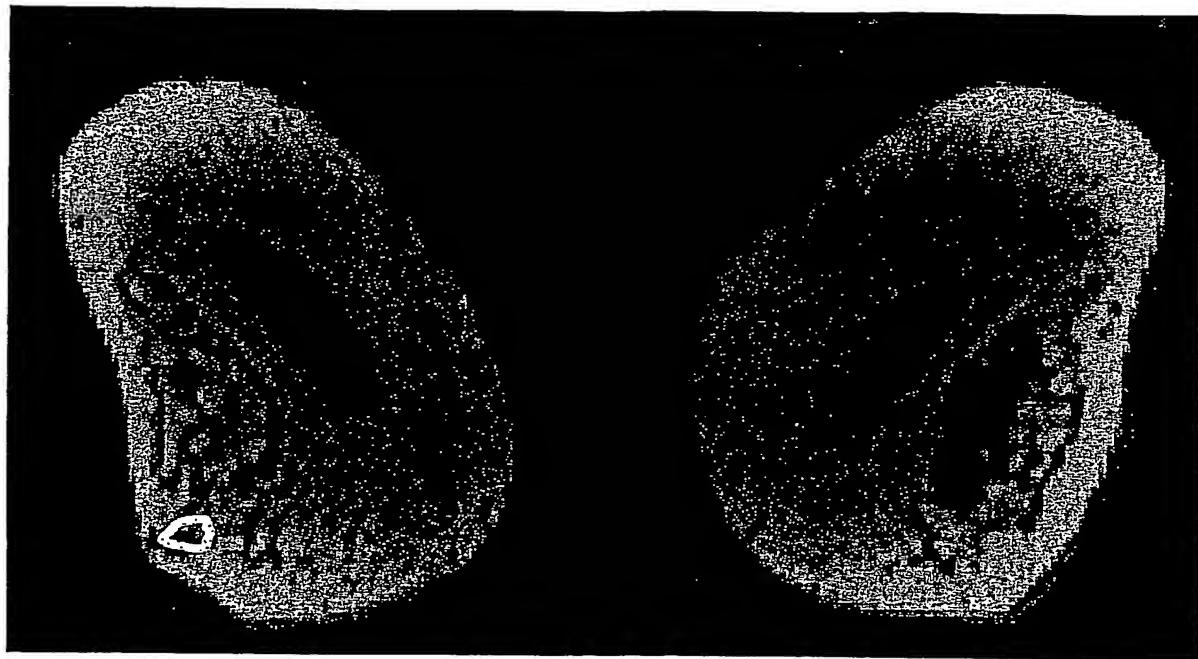


Fig. 11



Fig. 12

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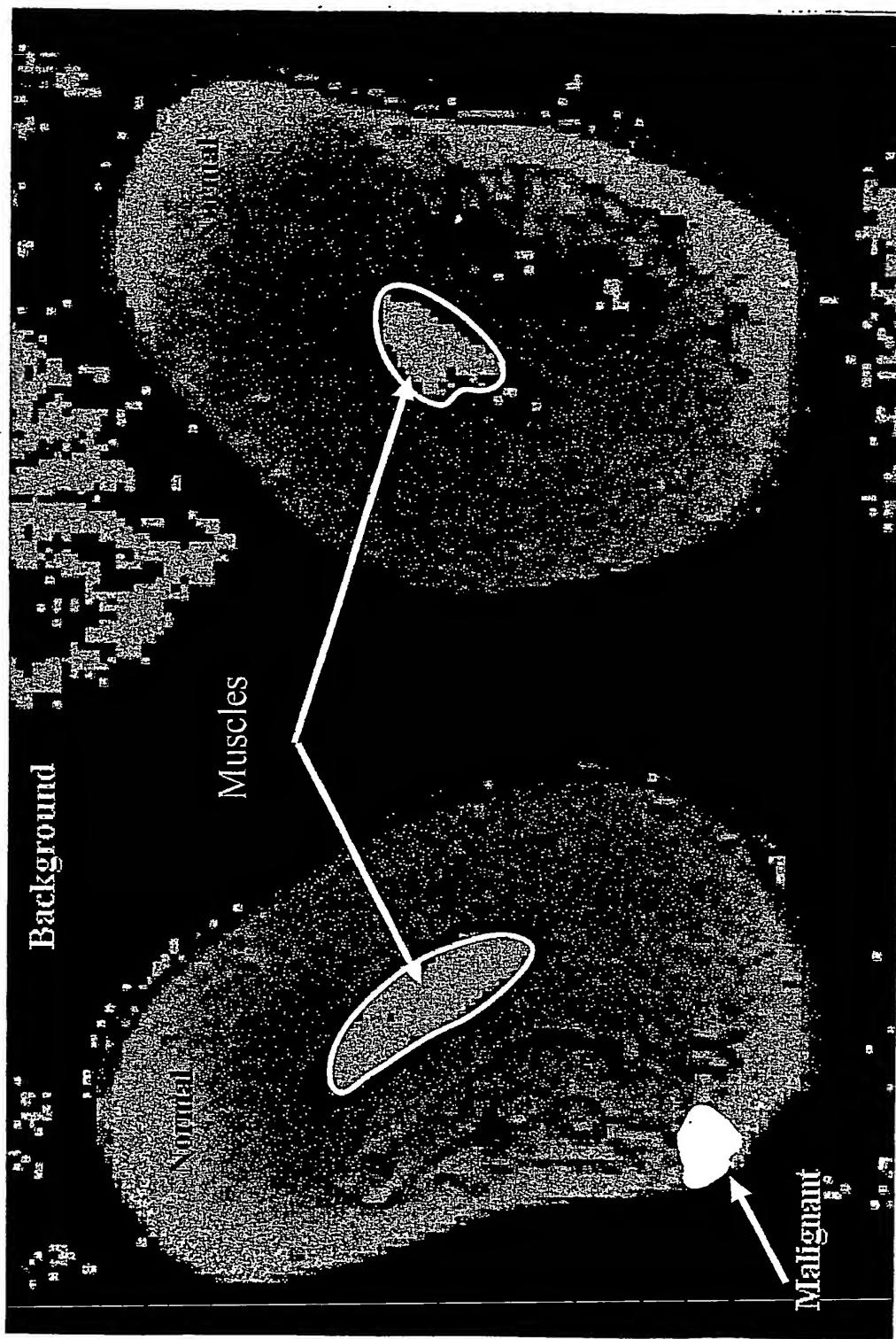
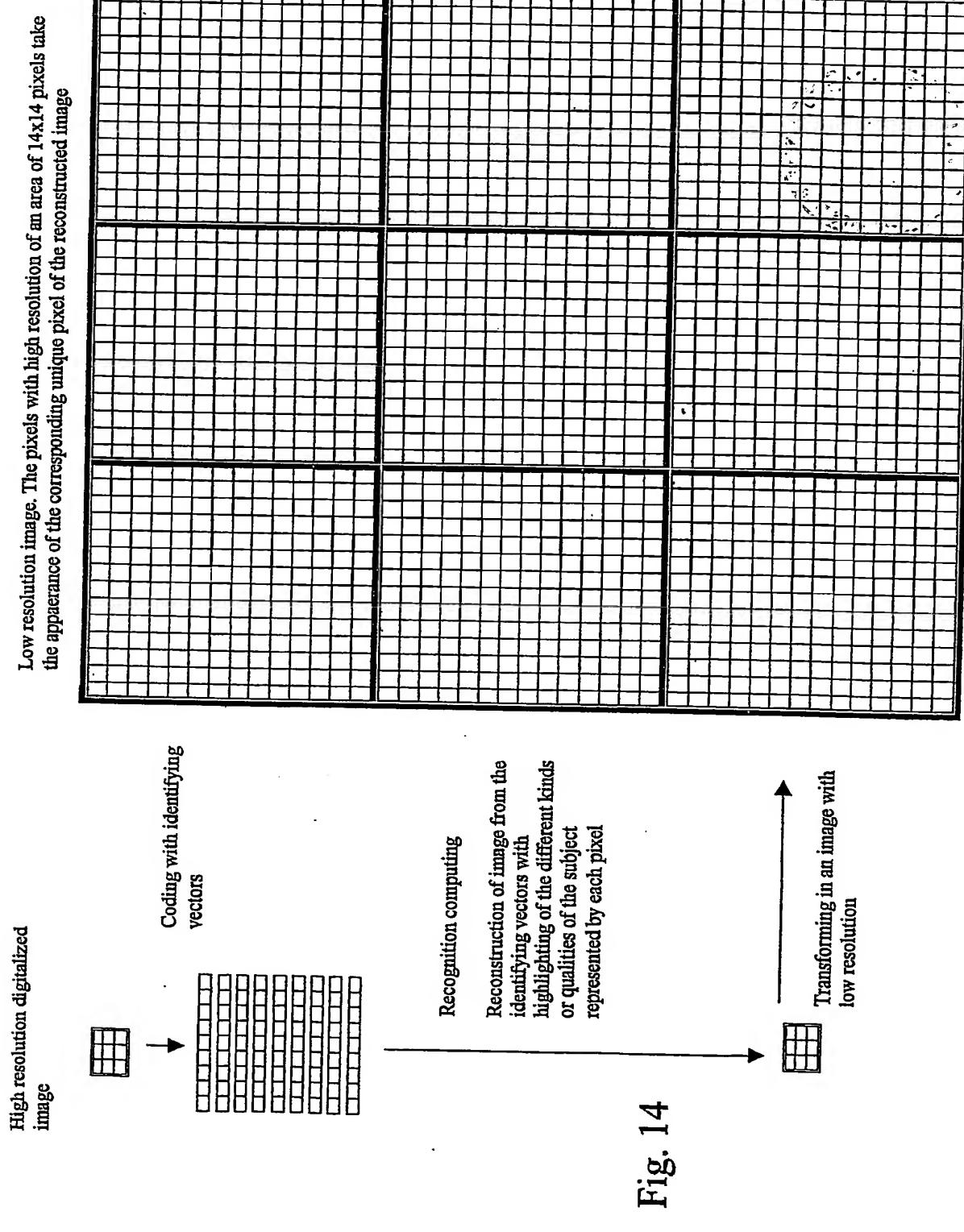


Fig. 13



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